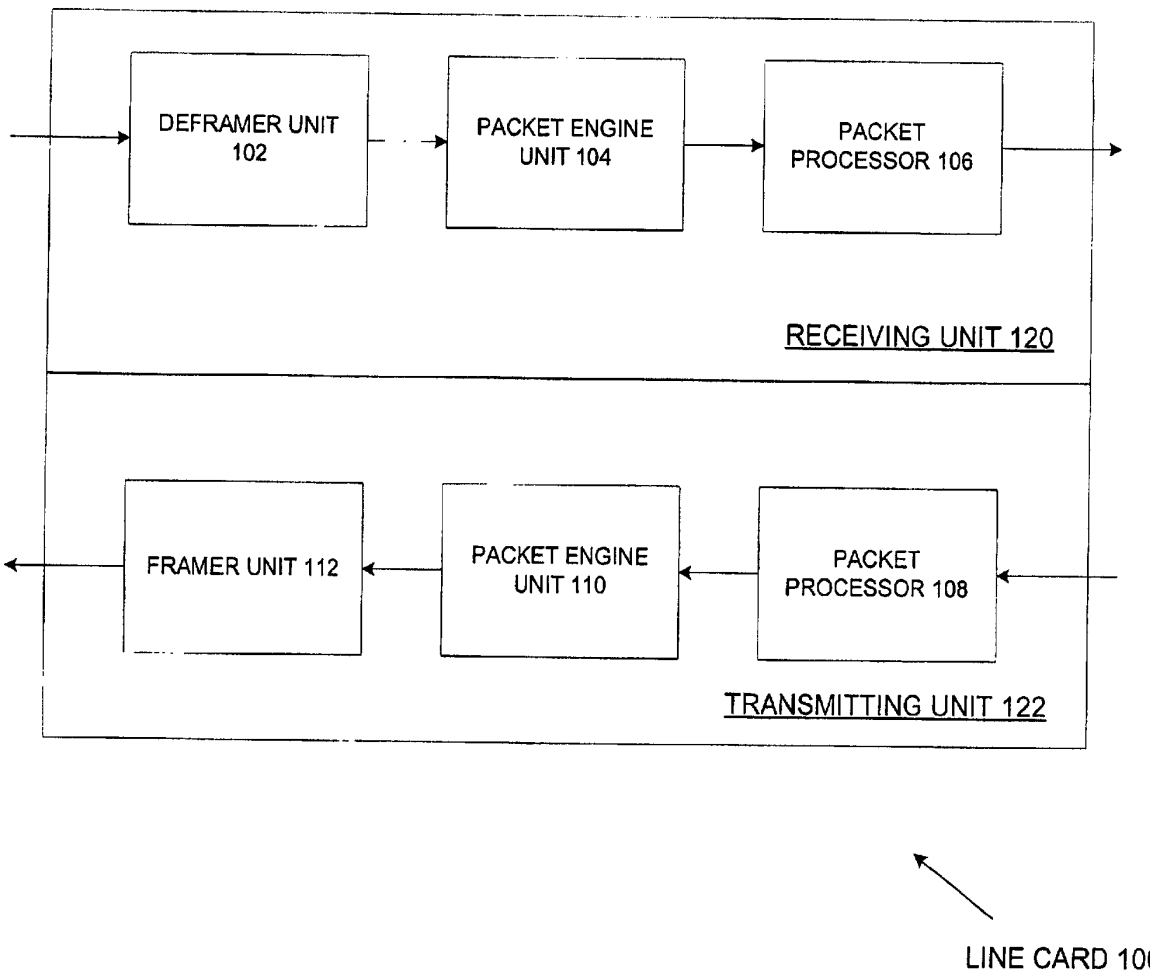

FIG. 1 (prior art)

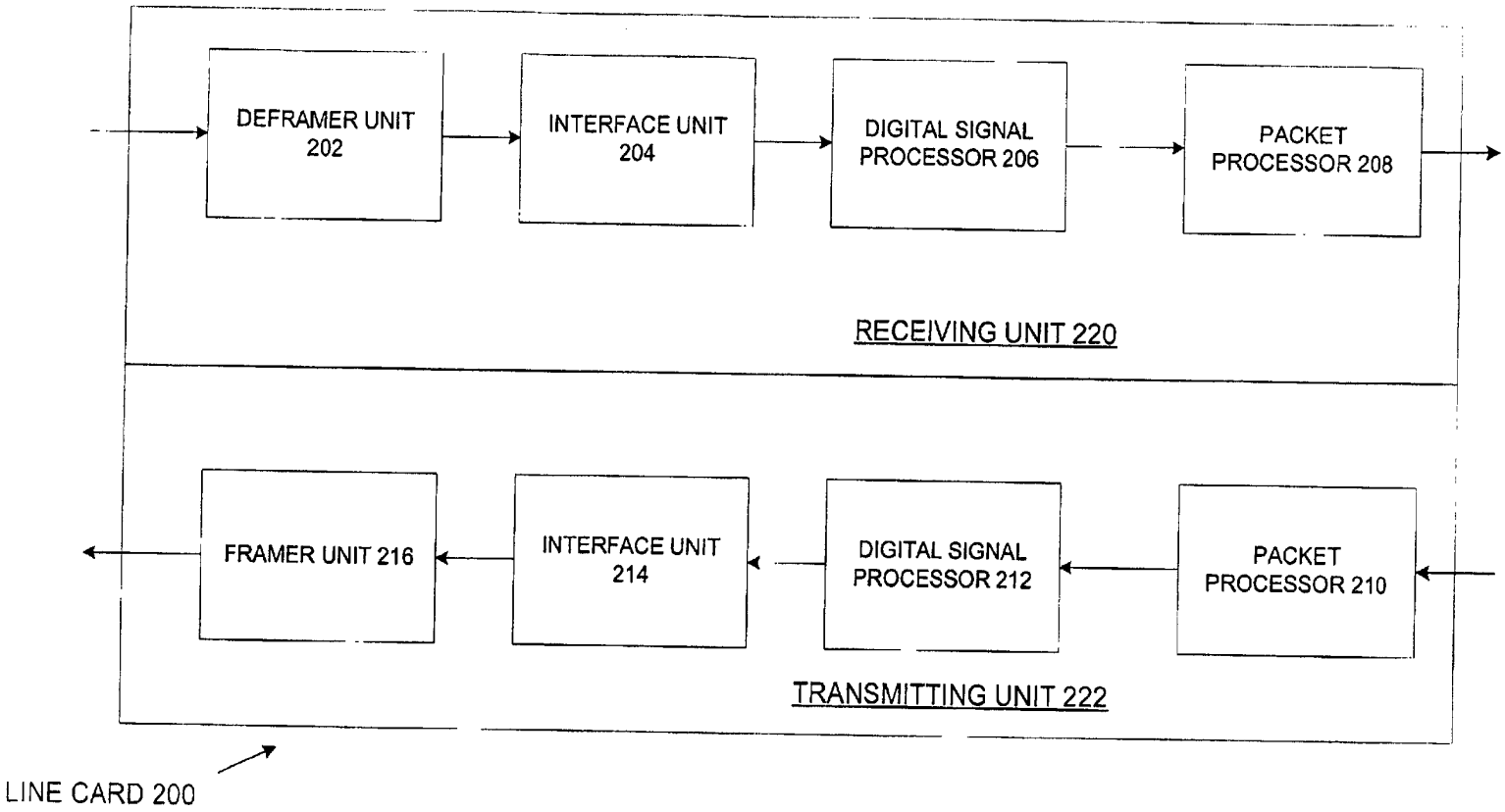

FIG. 2 (prior art)

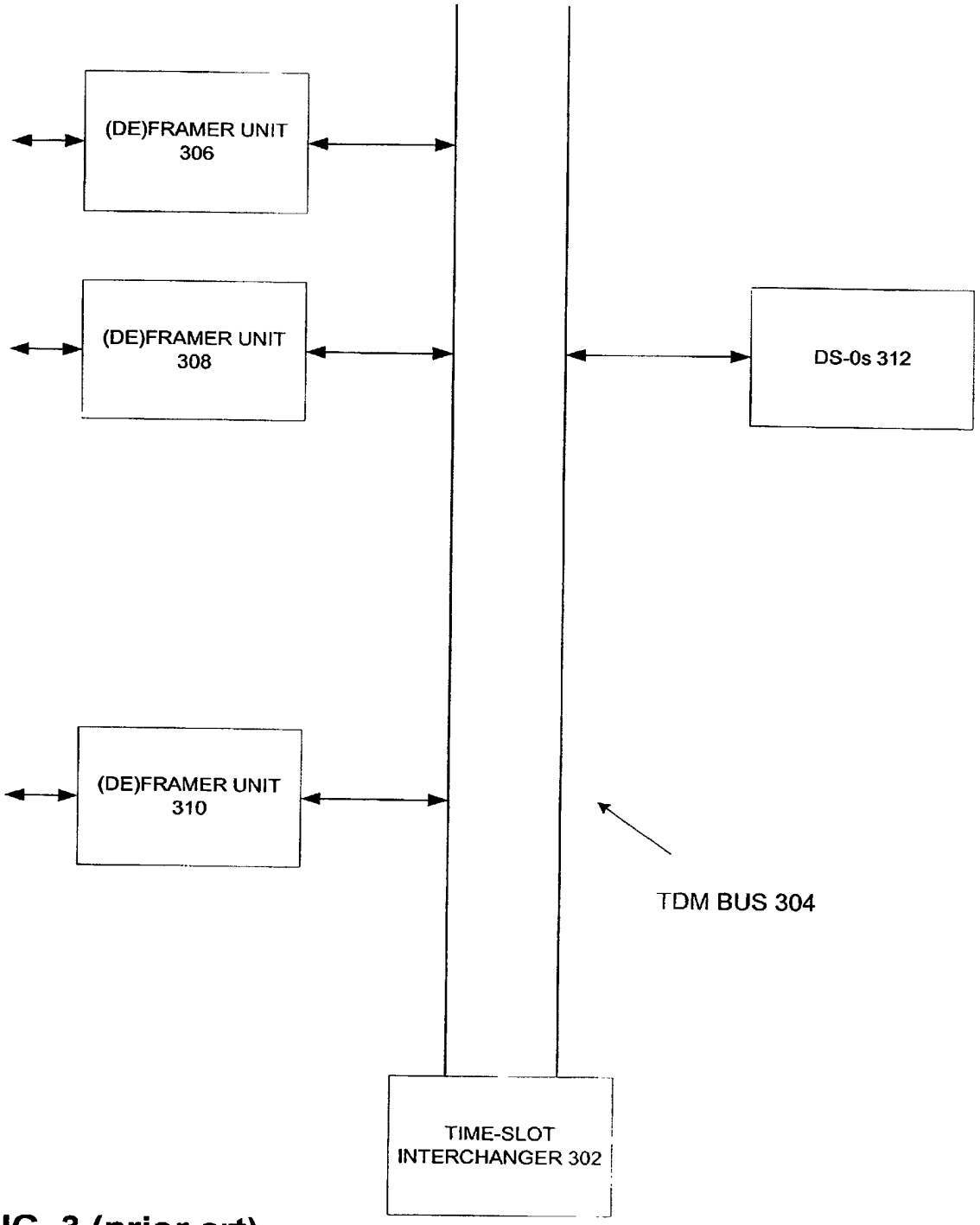

FIG. 3 (prior art)

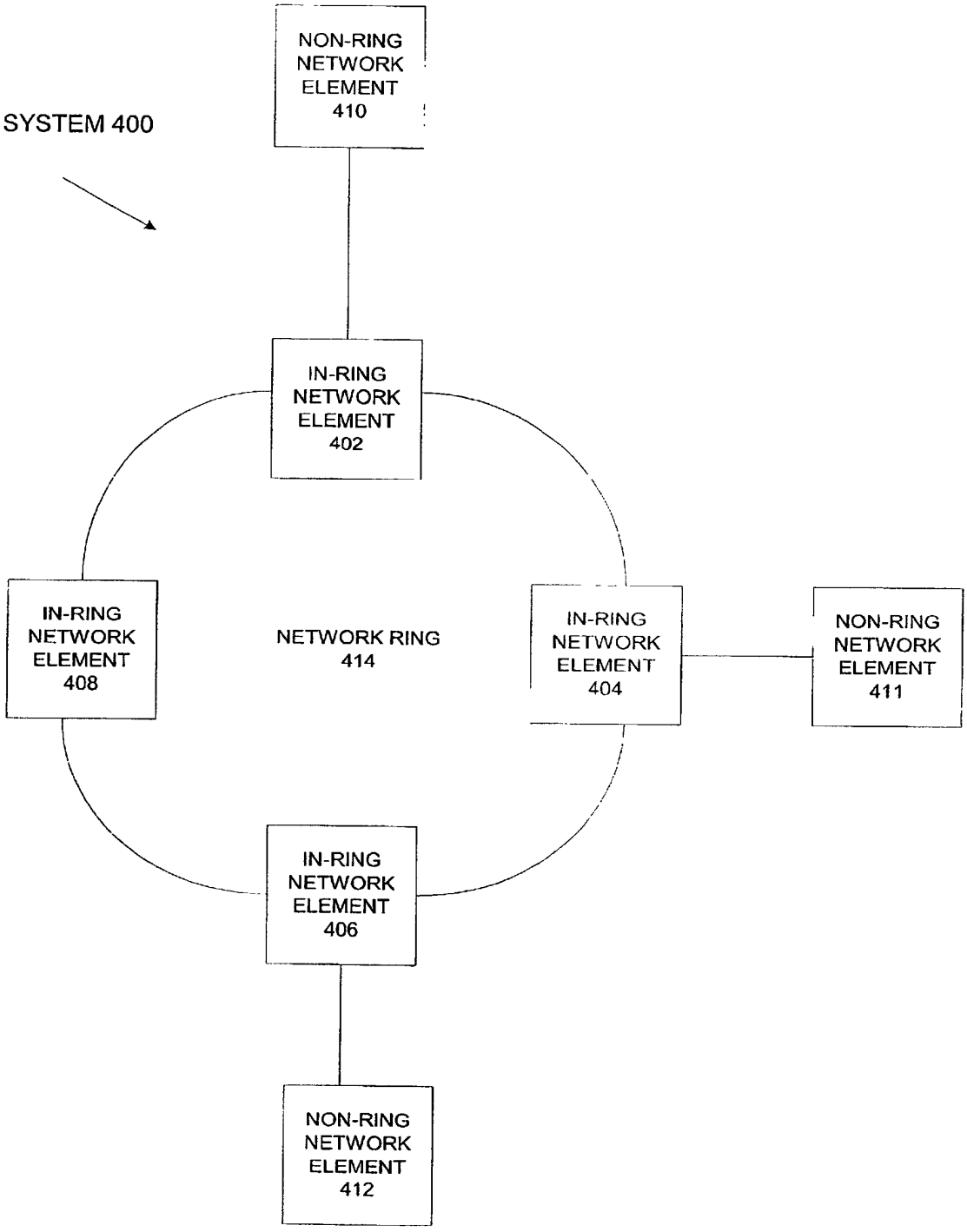
SYSTEM 400
NON-RING NETWORK ELEMENT 410
IN-RING NETWORK ELEMENT 402
IN-RING NETWORK ELEMENT 408
NETWORK RING 414
IN-RING NETWORK ELEMENT 404
NON-RING NETWORK ELEMENT 411
IN-RING NETWORK ELEMENT 406
NON-RING NETWORK ELEMENT 412

FIG. 4

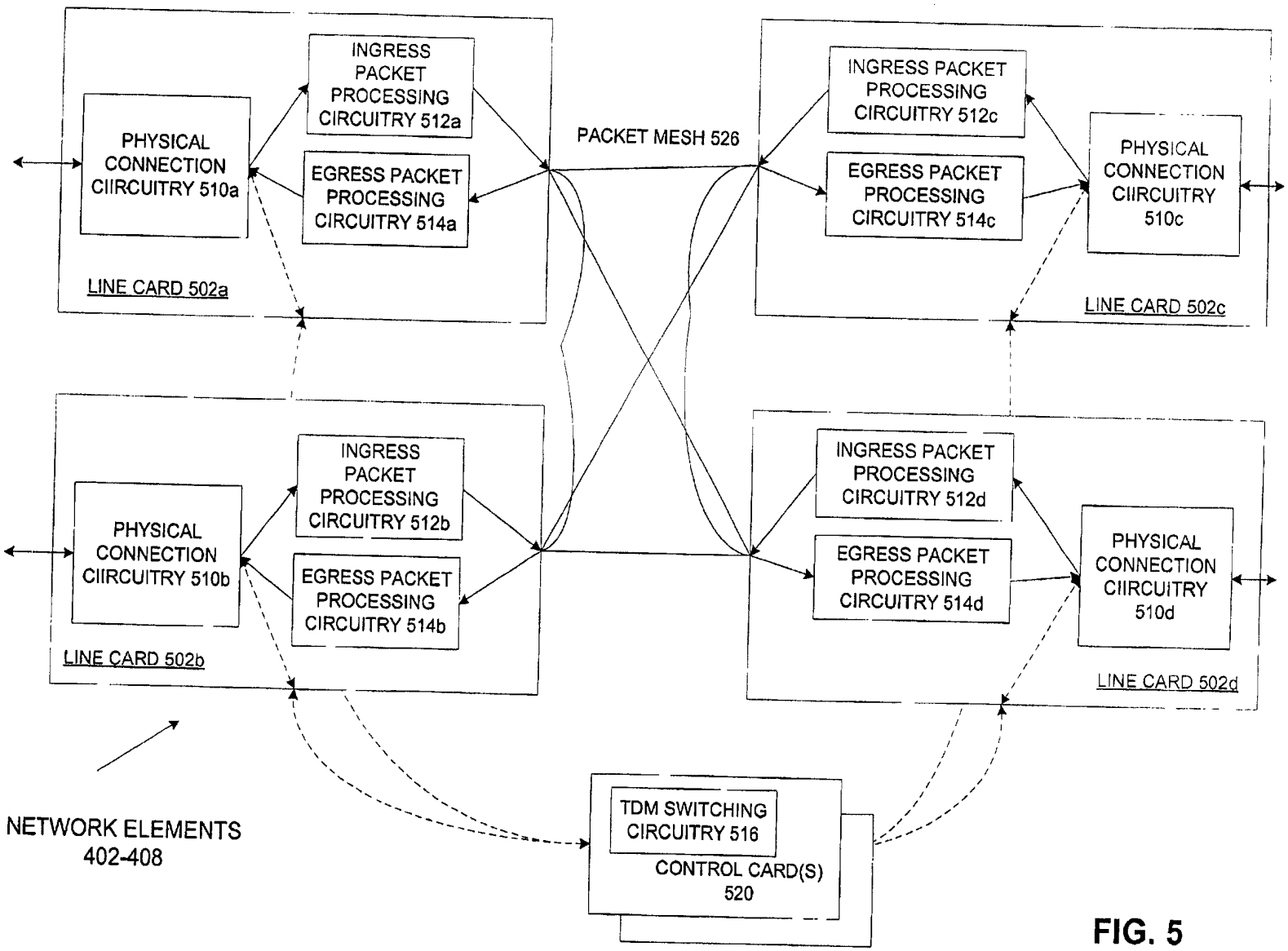
INGRESS PACKET PROCESSING CIRCUITRY 512a
PHYSICAL CONNECTION CIIRCUITRY 510a
EGRESS PACKET PROCESSING CIRCUITRY 514a
LINE CARD 502a
PACKET MESH 526
INGRESS PACKET PROCESSING CIRCUITRY 512c
EGRESS PACKET PROCESSING CIRCUITRY 514c
PHYSICAL CONNECTION CIIRCUITRY 510c
LINE CARD 502c
INGRESS PACKET PROCESSING CIRCUITRY 512b
PHYSICAL CONNECTION CIIRCUITRY 510b
EGRESS PACKET PROCESSING CIRCUITRY 514b
LINE CARD 502b
INGRESS PACKET PROCESSING CIRCUITRY 512d
EGRESS PACKET PROCESSING CIRCUITRY 514d
PHYSICAL CONNECTION CIIRCUITRY 510d
LINE CARD 502d
NETWORK ELEMENTS 402-408
TDM SWITCHING CIRCUITRY 516
CONTROL CARD(S) 520

FIG. 5

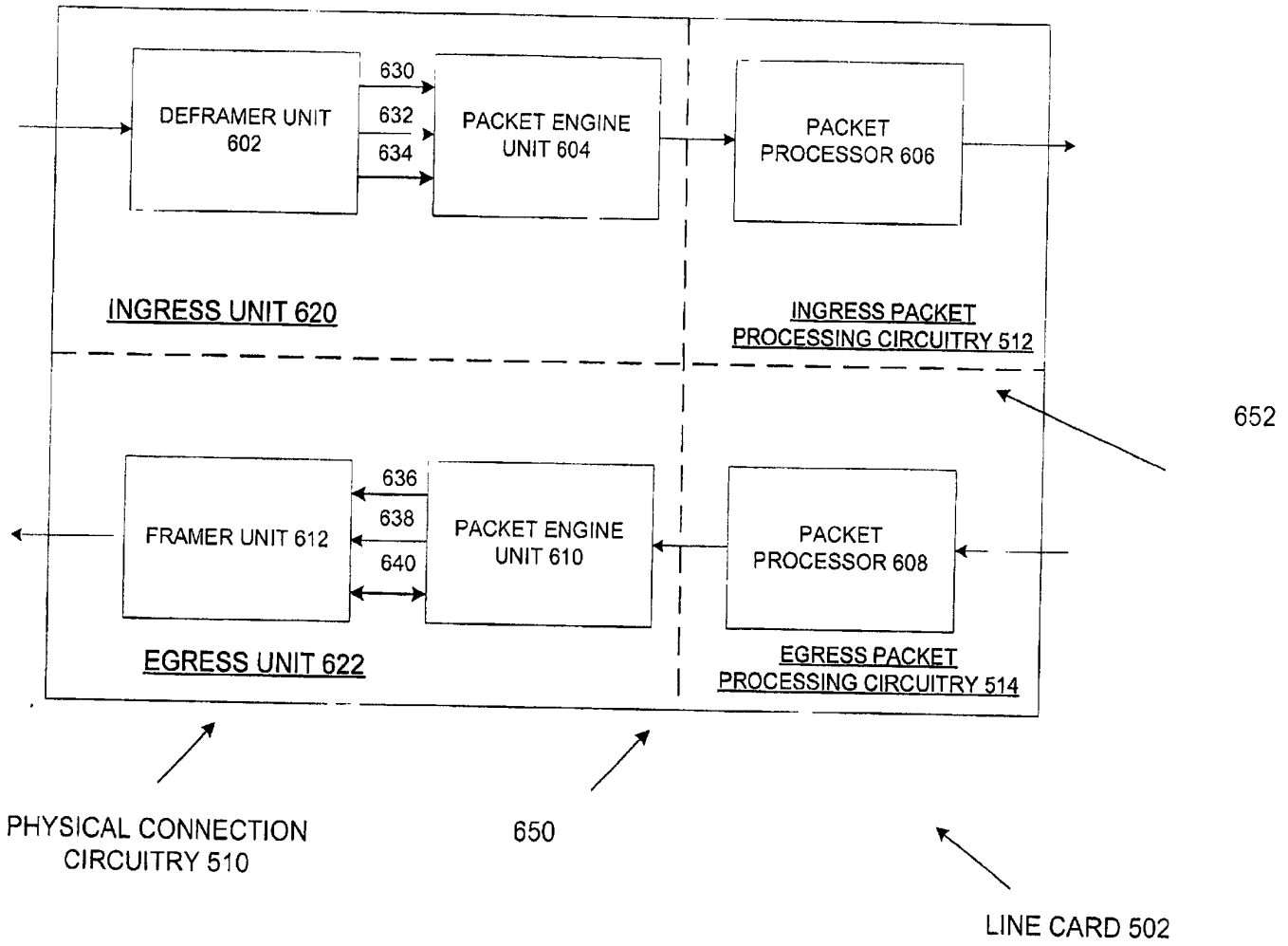
DEFRAMER UNIT 602
630
632
634
PACKET ENGINE UNIT 604
PACKET PROCESSOR 606
INGRESS UNIT 620
INGRESS PACKET PROCESSING CIRCUITRY 512
652
FRAMER UNIT 612
636
638
640
PACKET ENGINE UNIT 610
PACKET PROCESSOR 608
EGRESS UNIT 622
EGRESS PACKET PROCESSING CIRCUITRY 514
PHYSICAL CONNECTION CIRCUITRY 510
650
LINE CARD 502

FIG. 6

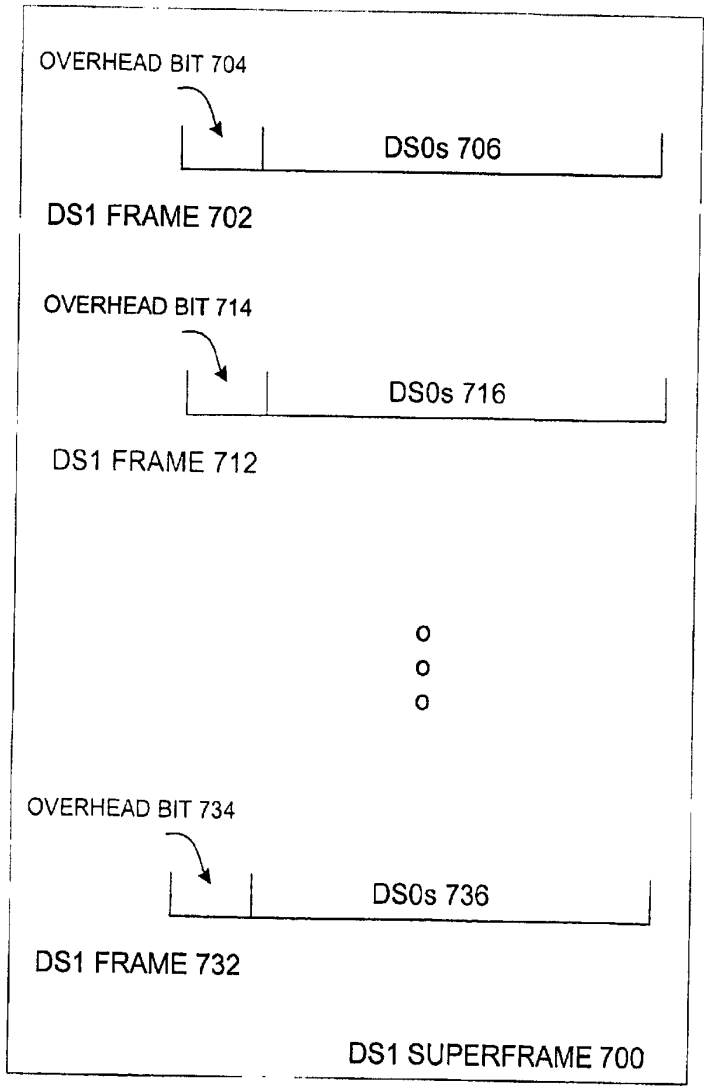
OVERHEAD BIT 704
DS0s 706
DS1 FRAME 702
OVERHEAD BIT 714
DS0s 716
DS1 FRAME 712
OVERHEAD BIT 734
DS0s 736
DS1 FRAME 732
DS1 SUPERFRAME 700

FIG. 7

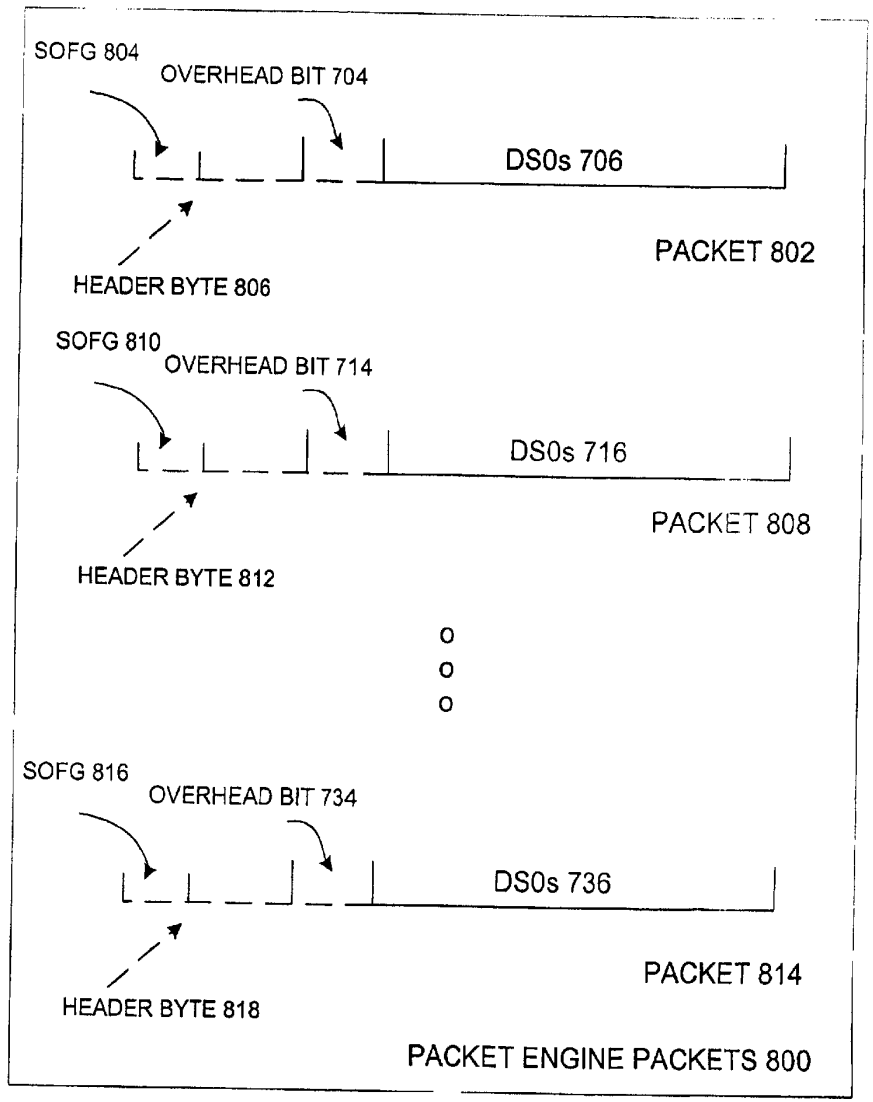
SOFG 804
OVERHEAD BIT 704
DS0s 706
PACKET 802
HEADER BYTE 806
SOFG 810
OVERHEAD BIT 714
DS0s 716
PACKET 808
HEADER BYTE 812
SOFG 816
OVERHEAD BIT 734
DS0s 736
PACKET 814
HEADER BYTE 818
PACKET ENGINE PACKETS 800

FIG. 8